

SERVICE MANUAL

Level 1&2

NOKIA 2600 CLASSIC

RM-340

RM-341



Transceiver characteristics:

Band:

EGSM:

-RM-340: Dual-band 900/1800MHz

-RM-341: Dual-band 850/1900MHz

WCDMA: -----

Display:

LCD: 128x160 pixel; color display

Camera:

Camera: VGA 300k pixel SMIA65

Operating System:

Series 40

Connections:

Wireless: Bluetooth

Connector: Easy Flash II Connector, AV Connector

Memory:

Transceiver with BL-5BT Li-Ion battery pack

Talk time	Standby	Note
up to 6h	up to 24days	Depends on network parameters and phone settings

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1. CHANGE HISTORY

Status	Version No.	Date	Comments
Draft	0.1	04.Dec.2007	Initial draft
Approved	1.0	03.Jan.2008	Approved
Approved	2.0	27.Feb.2008	Camera exchange instruction added
Approved	3.0	17.Mrz.2008	Exploded view update (Type Label moved from A3 to A2 Assembly)

The purpose of this document is to help NOKIA service levels 1 and 2 workshop technicians to carry out service to NOKIA products. This Service Manual is to be used only by authorized NOKIA service suppliers, and the content of it is confidential. Please note that NOKIA provides also other guidance documents (e.g. Service Bulletins) for service suppliers, follow these regularly and comply with the given instructions.

While every endeavor has been made to ensure the accuracy of this document, some errors may exist. If you find any errors or if you have further suggestions, please notify NOKIA using the address below:

CMO Operation & Logistics
Training and Vendor Development
Multimedia Creation & Support
<mailto:Service.Manuals@nokia.com>

Please keep in mind also that this documentation is continuously being updated and modified, so watch always out for the newest version.

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IMPORTANT

This document is intended for use by qualified service personnel only.

3. WARNINGS AND CAUTIONS

Warnings and Cautions

Please refer to the phone's user guide for instructions relating to operation, care and maintenance including important safety information. Note also the following:

Warnings:

1. CARE MUST BE TAKEN ON INSTALLATION IN VEHICLES FITTED WITH ELECTRONIC ENGINE MANAGEMENT SYSTEMS AND ANTI-SKID BRAKING SYSTEMS. UNDER CERTAIN FAULT CONDITIONS, EMITTED RF ENERGY CAN AFFECT THEIR OPERATION. IF NECESSARY, CONSULT THE VEHICLE DEALER/MANUFACTURER TO DETERMINE THE IMMUNITY OF VEHICLE ELECTRONIC SYSTEMS TO RF ENERGY.
2. THE HANDPORTABLE TELEPHONE MUST NOT BE OPERATED IN AREAS LIKELY TO CONTAIN POTENTIALLY EXPLOSIVE ATMOSPHERES, EG PETROL STATIONS (SERVICE STATIONS), BLASTING AREAS ETC.
3. OPERATION OF ANY RADIO TRANSMITTING EQUIPMENT, INCLUDING CELLULAR TELEPHONES, MAY INTERFERE WITH THE FUNCTIONALITY OF INADEQUATELY PROTECTED MEDICAL DEVICES. CONSULT A PHYSICIAN OR THE MANUFACTURER OF THE MEDICAL DEVICE IF YOU HAVE ANY QUESTIONS. OTHER ELECTRONIC EQUIPMENT MAY ALSO BE SUBJECT TO INTERFERENCE.

Cautions:

1. Servicing and alignment must be undertaken by qualified personnel only.
2. Ensure all work is carried out at an anti-static workstation and that an anti-static wrist strap is worn.
3. Use only approved components as specified in the parts list.
4. Ensure all components, modules screws and insulators are correctly re-fitted after servicing and alignment.
5. Ensure all cables and wires are repositioned correctly.

4. ESD PROTECTION

Nokia requires that service points have sufficient ESD protection (against static electricity) when servicing the phone.

Any product of which the covers are removed must be handled with ESD protection. The SIM card can be replaced without ESD protection if the product is otherwise ready for use.

To replace the covers ESD protection must be applied.

All electronic parts of the product are susceptible to ESD. Resistors, too, can be damaged by static electricity discharge.

All ESD sensitive parts must be packed in metallized protective bags during shipping and handling outside any ESD Protected Area (EPA).

Every repair action involving opening the product or handling the product components must be done under ESD protection.

ESD protected spare part packages MUST NOT be opened/closed out of an ESD Protected Area.

For more information and local requirements about ESD protection and ESD Protected Area, contact your local Nokia After Market Services representative.



5. CARE AND MAINTENANCE

This product is of superior design and craftsmanship and should be treated with care. The suggestions below will help you to fulfil any warranty obligations and to enjoy this product for many years.

- Keep the phone and all its parts and accessories out of the reach of small children.
 - Keep the phone dry. Precipitation, humidity and all types of liquids or moisture can contain minerals that will corrode electronic circuits.
 - Do not use or store the phone in dusty, dirty areas. Its moving parts can be damaged.
 - Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
 - Do not store the phone in cold areas. When it warms up (to its normal temperature), moisture can form inside, which may damage electronic circuit boards.
 - Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
 - Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the phone.
 - Do not paint the phone. Paint can clog the moving parts and prevent proper operation.
 - Use only the supplied or an approved replacement antenna. Unauthorised antennas, modifications or attachments could damage the phone and may violate regulations governing radio devices.
- All of the above suggestions apply equally to the product, battery, charger or any accessory.

6. BATTERY INFORMATION

Note: A new battery's full performance is achieved only after two or three complete charge and discharge cycles! The battery can be charged and discharged hundreds of times but it will eventually wear out. When the operating time (talk-time and standby time) is noticeably shorter than normal, it is time to buy a new battery. Use only batteries approved by the phone manufacturer and recharge the battery only with the chargers approved by the manufacturer.

Unplug the charger when not in use. Do not leave the battery connected to a charger for longer than a week, since overcharging may shorten its lifetime.

If left unused a fully charged battery will discharge itself over time. Temperature extremes can affect the ability of your battery to charge.

For good operation times with Ni-Cd/NiMH batteries, discharge the battery from time to time by leaving the product switched on until it turns itself off (or by using the battery discharge facility of any approved accessory available for the product).

Do not attempt to discharge the battery by any other means. Use the battery only for its intended purpose. Never use any charger or battery which is damaged.

Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes direct connection of the + and - terminals of the battery (metal strips on the battery) for example when you carry a spare battery in your pocket or purse. Short-circuiting the terminals may damage the battery or the connecting object.

Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 15°C and 25°C (59°F and 77°F). A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Batteries' performance is particularly limited in temperatures well below freezing.

Do not dispose batteries in a fire! Dispose of batteries according to local regulations (e.g. recycling). Do not dispose as household waste.

7. PRODUCT CONTROLS & INTERFACES OVERVIEW

2600 classic RM-340/341 Product Controls & Interfaces

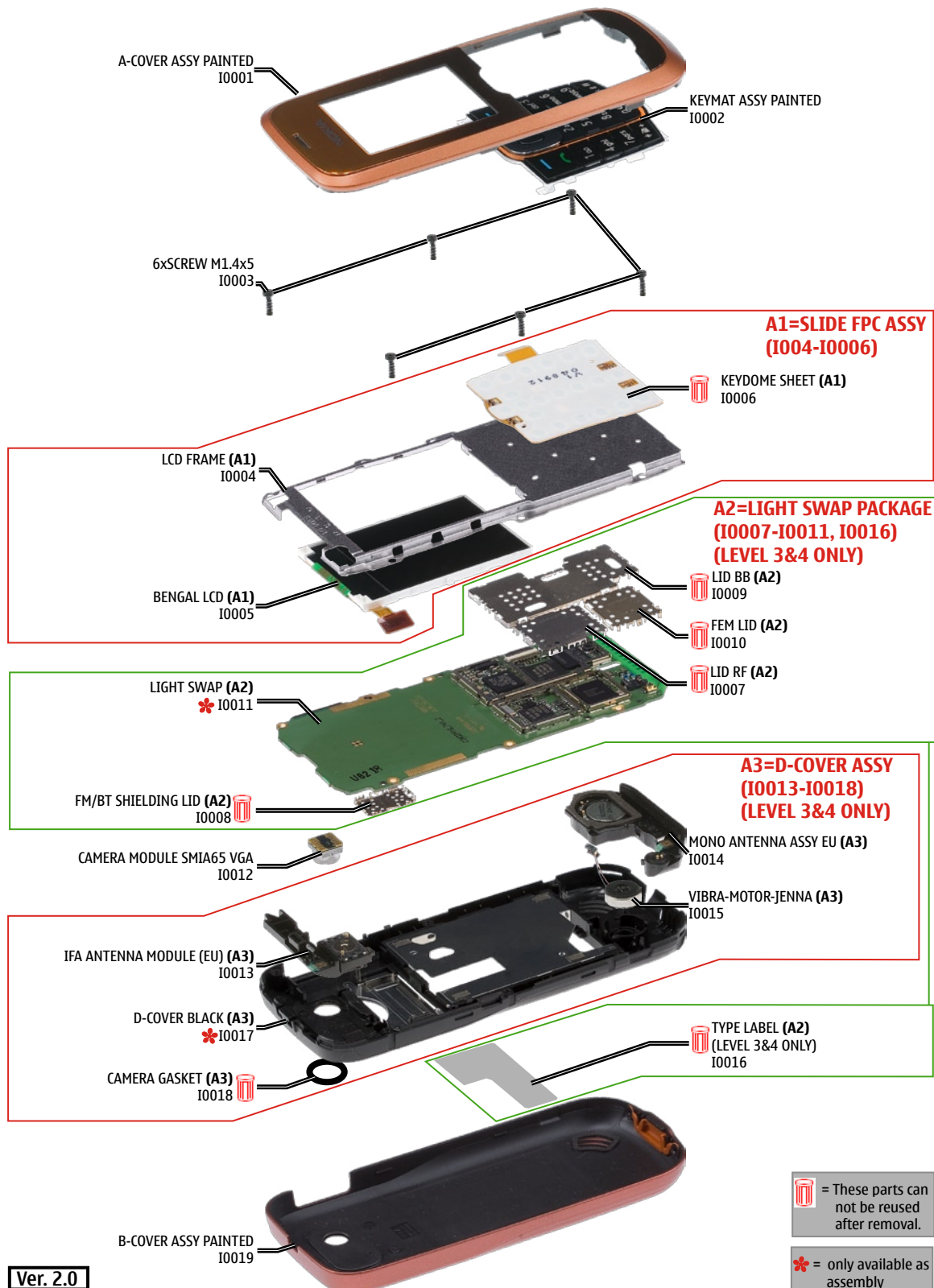


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8. EXPLODED VIEW

See corresponding ITEM/CIRCUIT REF in the Spare Parts Service Bulletins on NOL.

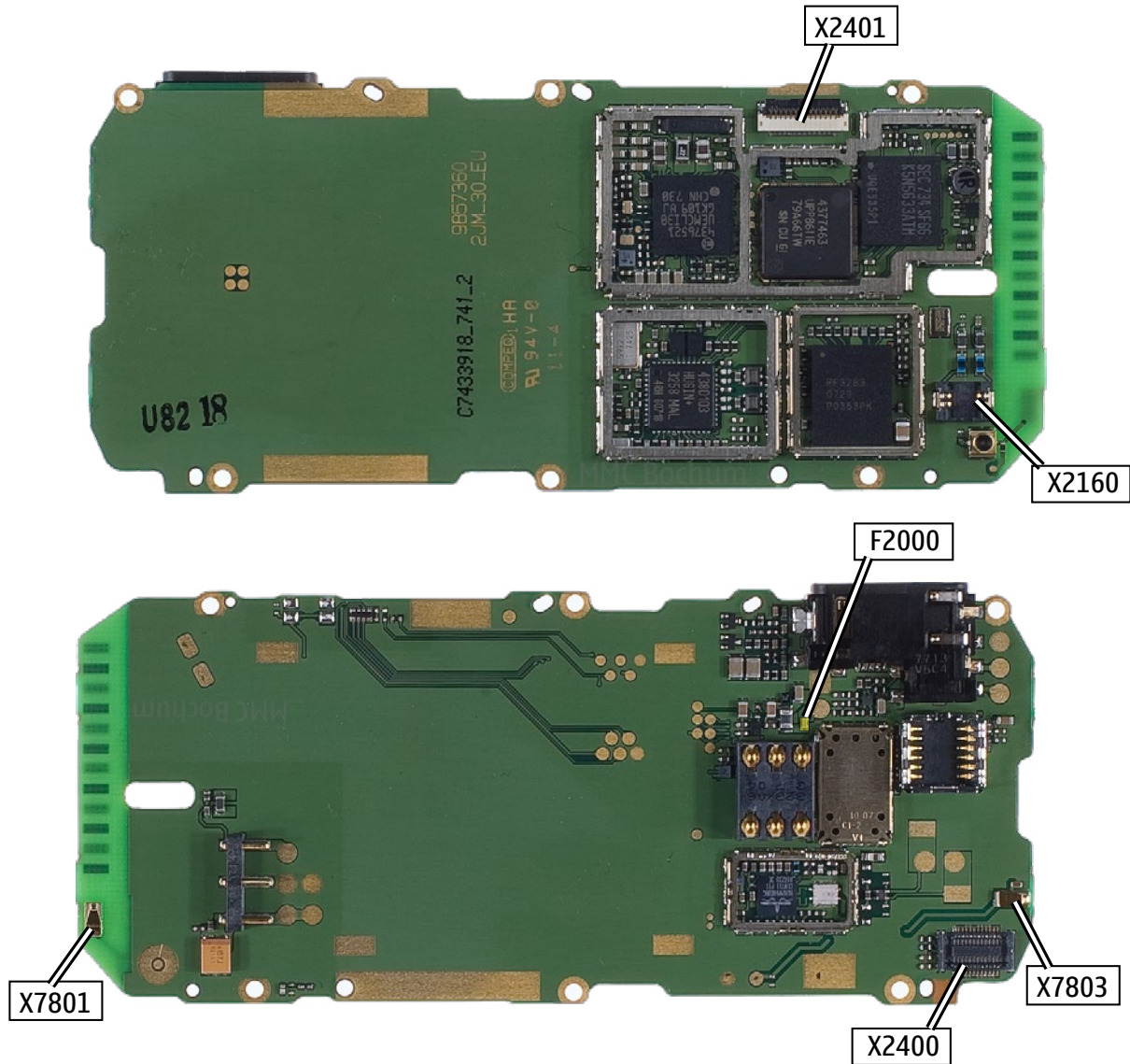
2600classic RM-340/RM-341 EXPLODED VIEW



9. LEVEL 2 SOLDER COMPONENTS

2600classic RM-340/RM-341 Components overview

Solder components only for LEVEL 2



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10. SERVICE DEVICES

 <p>FLS-5</p> <p>FLS-5 incl. ACF-8, Driver and User Guide Dongle and flash device incorporated into one package, developed specifically for POS use.</p>	 <p>ACF-8 Universal Power Supply is used to power FLS-5.</p>	 <p>Travel Charger AC-4 Small and lightweight charger for fast charging of your phone battery.</p>
 <p>CA-112DS 100cm</p> <p>CA-112DS Service Cable to connect the PC with the Easy Flash II connector.</p>	 <p>SS-88</p> <p>SS-88 Camera removal tool. One side is for disassembly, the other side for assembly.</p>	 <p>RJ-200</p> <p>RJ-200 Soldering Jig</p>
 <p>BL-5BT</p> <p>Internal Battery BL-5BT Inserted under the back cover, this Li-Ion battery provides power in a lightweight package.</p>		 <p>0772040 NMP Standard Toolkit (V2) For more informations refer to the Service Bulletin (SB-011) on NOKIA Online. Supplier or manufacturer contacts for tool re-order can be found in “Recommended service equipment” document on NOKIA Online.</p>

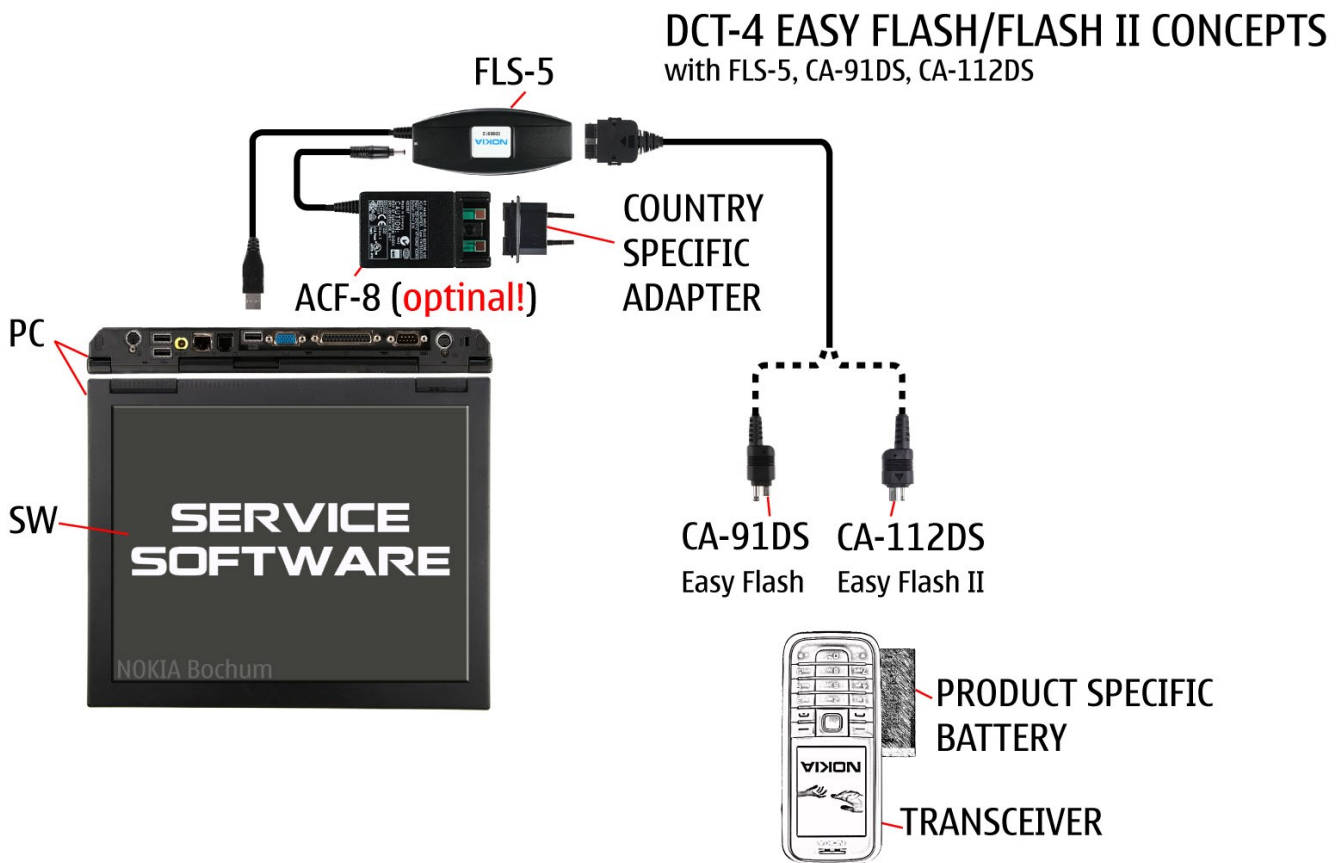
11. SW-UPDATE

Flash Concept – (Point of Sales)

To use FLS-5 Flash Dongle you have to follow the user guide inside the sales package. Please check always for the latest version of flash software, which is available on

[NOKIA Online](#).

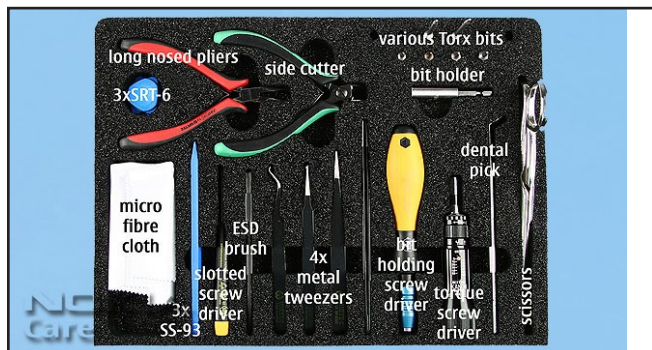
For flashing use the CA-112DS cable.



12. DISASSEMBLY



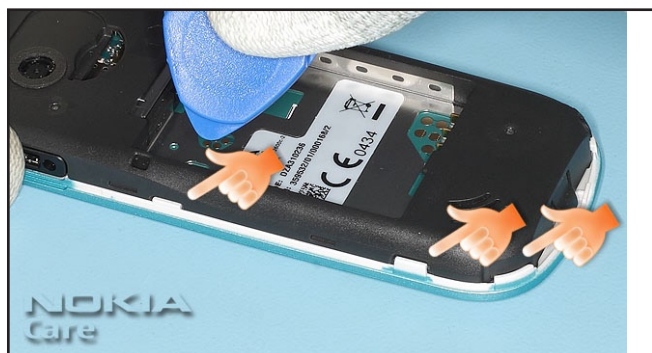
1. Nokia 2600 classic disassembly.



2. You need the Nokia Standard Toolkit version 2 and the SS-88.



3. Unlock and remove the B-COVER.



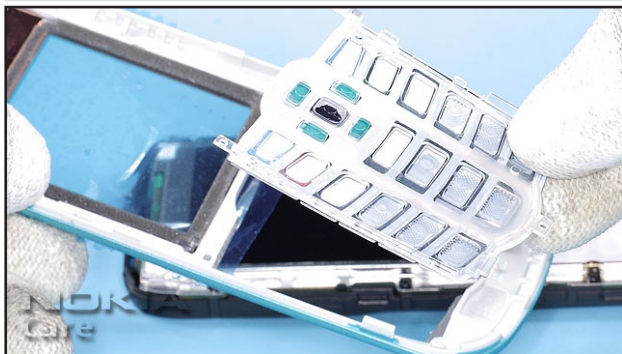
4. Unlock this 3 plastic clips with the SRT-6, starting at the top.



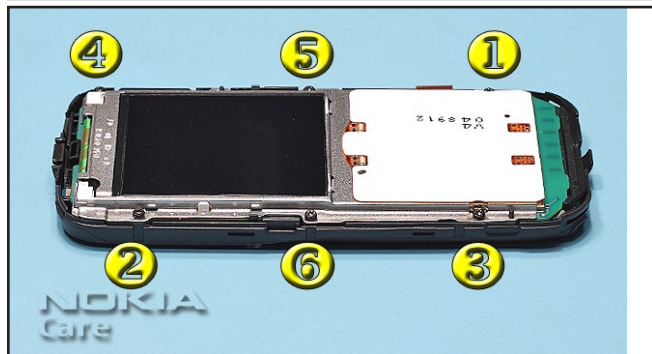
5. Also release the 3 clips at the opposite side, starting at the top. Do not bend the A-COVER while releasing the clips.



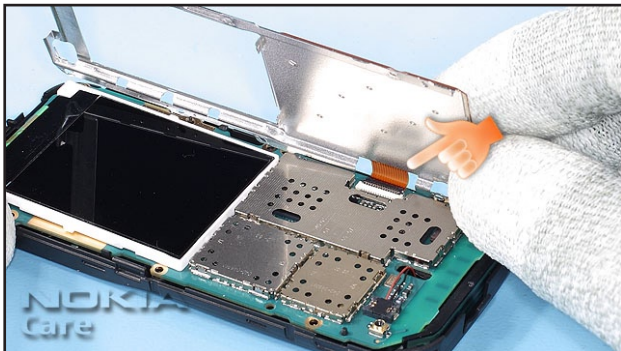
6. After releasing all clips, the parts can be separated easily.



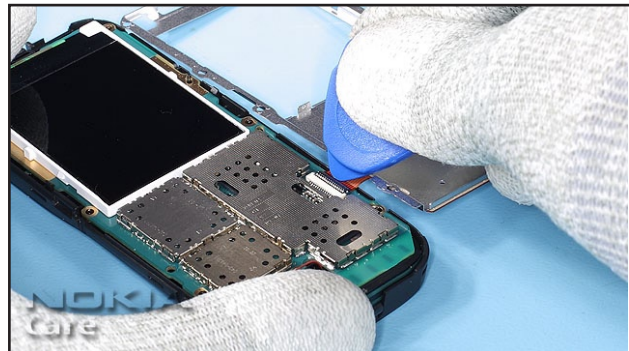
7. The KEYMAT ASSY can be separated from the cover.



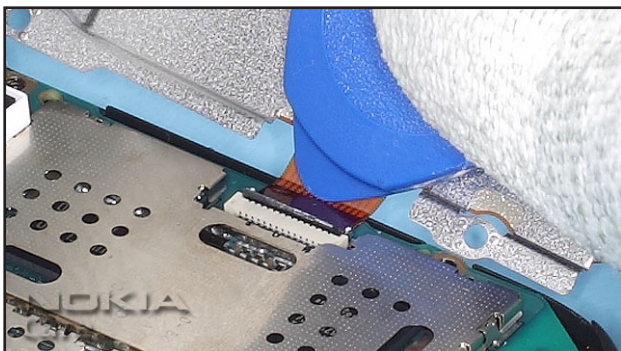
8. Unscrew and remove these 6 Torx Plus size 5 screws in the shown order.



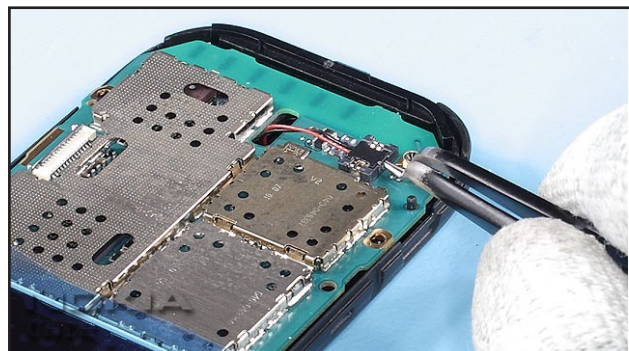
9. Flip over the UI SHIELDING CAN. Note that a flex foil is still connected.



10. Use the SRT-6 for opening the flex connector.



11. Do not damage delicate the flex connector while opening.



12. Gently open the vibra connector with angled tweezers.



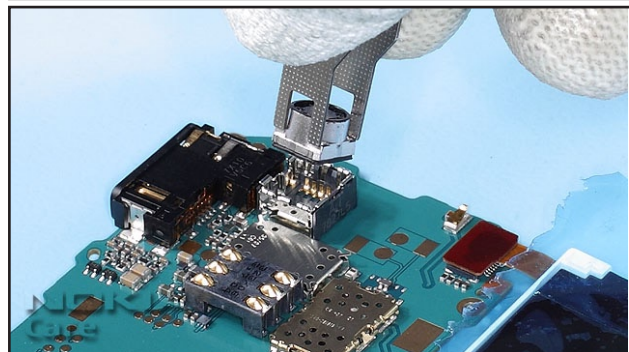
13. Unlock the plastic clip.



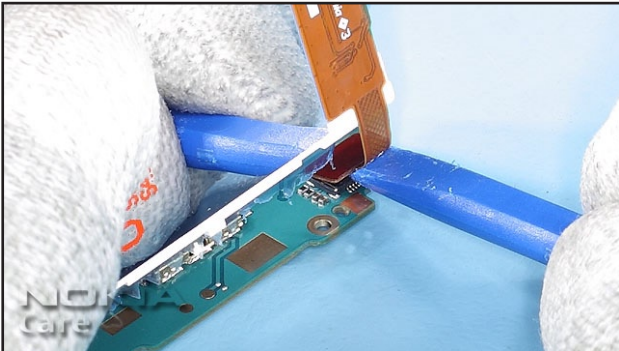
14. Gently lift up the ENGINE MODULE. Slot through the connector of the vibra.



15. Flip over the LCD. Use the SS-88 for camera removal.



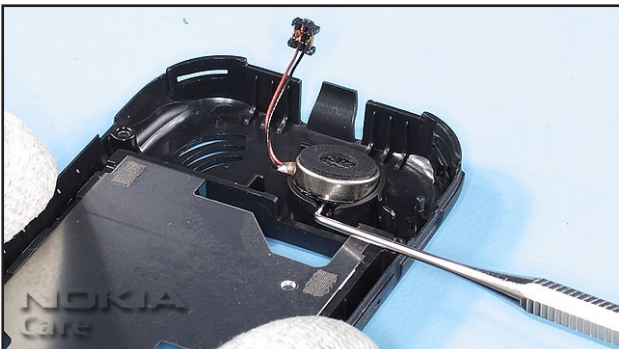
16. Gently unlock the clips of the CAMERA MODULE and lift it up.



17. Open the flex connector of the LCD. Note the hidden components underneath.



18. Lift out the IHF ANTENNA MODULE.



19. Ease out the VIBRA MOTOR and remove it. Also remove all the adhesive residues.

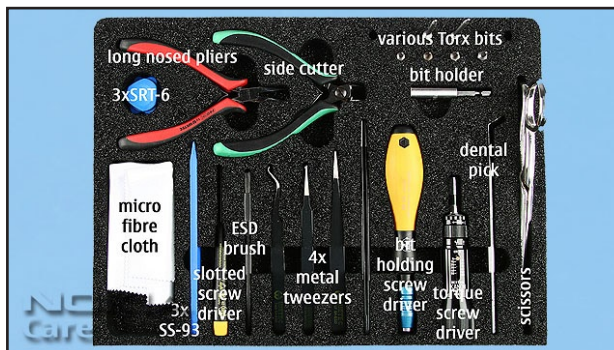


20. Gently lift out the EARPIECE. Also remove the adhesive residues from the opponent part.

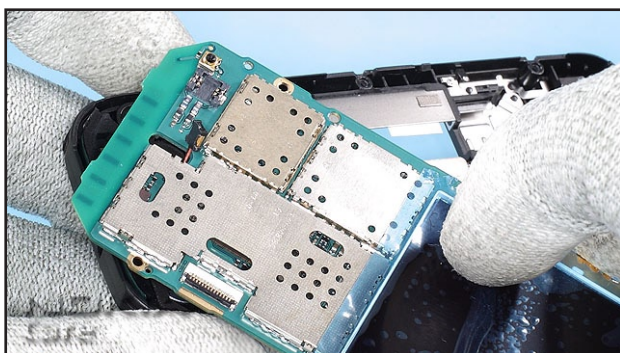
13. ASSEMBLY



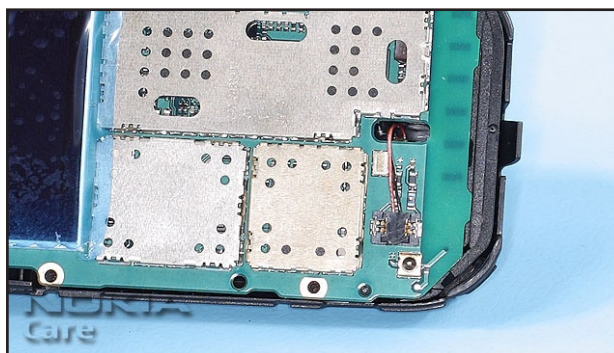
1. Nokia 2600 Assembly hints.



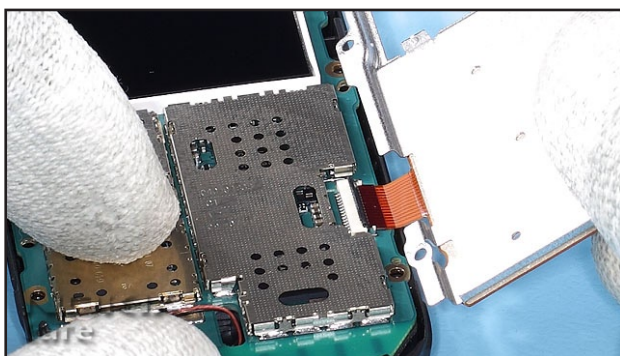
2. You need the Nokia Standard Toolkit version 2.



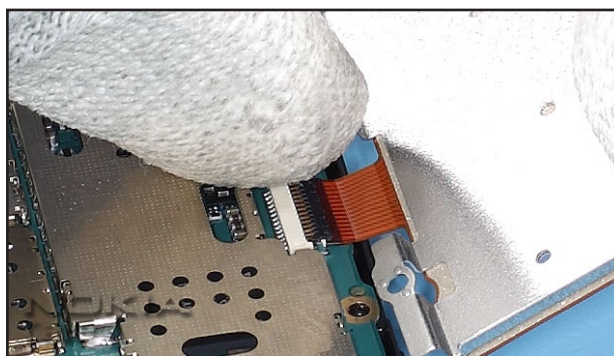
3. Slot the connector Through the recess of the ENGINE MODULE.



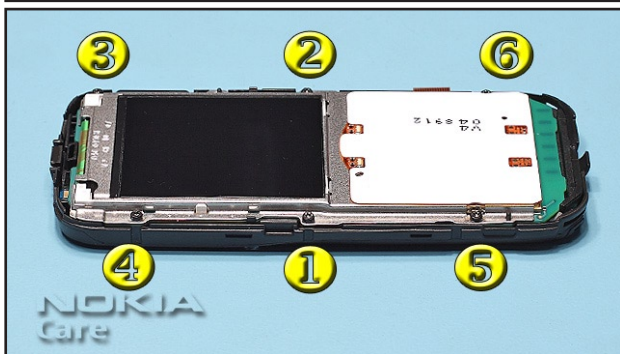
4. Close the connector. Mind the correct positioning of the connector before going on.



5. Slot the flex foil into the connector.



6. Now align the flex foil evenly and close the connector.



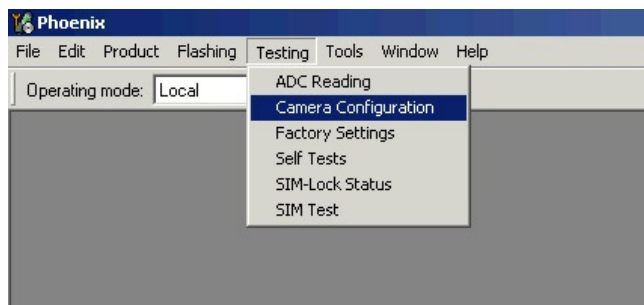
7. Tighten the screws with a torque of 15Ncm in the order shown.

14. CAMERA EXCHANGE INSTRUCTION

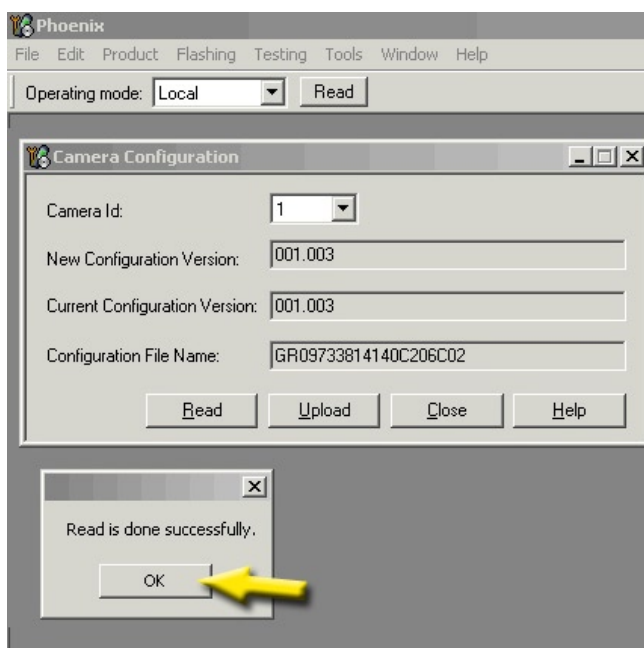
Phoenix instruction:

Follow this instruction, only if you replace the camera module with a new one.

1. Connect the phone with the Phoenix software.
2. Choose in the menu "**Testing**" the "**Camera Configuration**" menu.



3. The read out of the Camera Module starts automatically.
4. Press "**OK**"



5. Press "**Upload (1)**" to store the new data into the phone.
6. Press "**Ok (2)**" to close the procedure.

